

**Luneberg reflectors monostatic rectilinear polarization**  
(see Technical Data Sheet F7.2-11)

| Type           | Guaranteed minimum Radar Cross Section (sqm) * | Frequency of measurement | Kind of response  | Ø of reflector without fixing |    | Weight (kg) without fixing | Polarization       |
|----------------|--|--------------------------|-------------------|-------------------------------|----|----------------------------|--------------------|
|                |  |                          |                   | inch                          | cm |                            |                    |
| <b>SMR07</b>   | 0,6 at 0°<br>0,4 ± 50°                         | <b>3,3 GHz</b>           | <b>monostatic</b> | 7,0                           | 18 | 1,3                        | <b>rectilinear</b> |
| <b>XMR03</b>   | 0,2 at 0°<br>0,15 ± 40°                        | <b>9,375 GHz</b>         |                   | 3,0                           | 8  | 0,12                       |                    |
| <b>XMR04</b>   | 0,55 at 0°<br>0,4 ± 40°                        |                          |                   | 4,0                           | 10 | 0,27                       |                    |
| <b>XMR05</b>   | 1,2 at 0°<br>0,9 ± 50°                         |                          |                   | 4,9                           | 12 | 0,45                       |                    |
| <b>XMR06</b>   | 2,5 at 0°<br>1,9 ± 50°                         |                          |                   | 6,0                           | 15 | 0,8                        |                    |
| <b>XMR06.5</b> | 4 at 0°<br>3 ± 50°                             |                          |                   | 6,5                           | 16 | 1,2                        |                    |
| <b>XMR07</b>   | 5,5 at 0°<br>4 ± 50°                           |                          |                   | 7,0                           | 18 | 1,3                        |                    |
| <b>XMR08.5</b> | 9 at 0°<br>8 ± 50°                             |                          |                   | 8,5                           | 22 | 2,5                        |                    |
| <b>XMR09</b>   | 15 at 0°<br>12 ± 50°                           |                          |                   | 9,2                           | 23 | 2,9                        |                    |
| <b>XMR10</b>   | 19 at 0°<br>16 ± 50°                           |                          |                   | 10,0                          | 25 | 3,8                        |                    |
| <b>XMR12.5</b> | 45 at 0°<br>35 ± 50°                           |                          |                   | 12,5                          | 32 | 7,4                        |                    |
| <b>XMR18</b>   | 100 at 0°<br>50 ± 50°                          |                          |                   | 17,5                          | 44 | 20                         |                    |
| <b>XMR24</b>   | 250 at 0°<br>200 ± 50°                         |                          |                   | 24,0                          | 61 | 50                         |                    |
| <b>KMR08.5</b> | 12 at 0°<br>10 ± 50°                           | <b>14 GHz</b>            |                   | 8,5                           | 22 | 2,5                        |                    |
| <b>KMR09</b>   | 15 at 0°<br>12 ± 50°                           |                          |                   | 9,2                           | 23 | 2,9                        |                    |

\* RCS values are guaranteed for lenses without fixing

**Luneberg reflectors bistatic rectilinear polarization**  
(see Technical Data Sheet F7.2-13)

| Type           | Guaranteed minimum Radar Cross Section (sqm) * | Frequency of measurement | Kind of response | Ø of reflector without fixing |    | Weight (kg) without fixing | Polarization       |
|----------------|--|--------------------------|------------------|-------------------------------|----|----------------------------|--------------------|
|                |  |                          |                  | inch                          | cm |                            |                    |
| <b>XBR03</b>   | 0,1 at 0°<br>0,05 at 10° of bist               | <b>9,375 GHz</b>         | <b>bistatic</b>  | 3,0                           | 8  | 0,12                       | <b>rectilinear</b> |
| <b>XBR04</b>   | 0,4 at 0°<br>0,2 at 10° of bist                |                          |                  | 4,0                           | 10 | 0,27                       |                    |
| <b>XBR05</b>   | 1 at 0°<br>0,4 at 10° of bist                  |                          |                  | 4,9                           | 12 | 0,45                       |                    |
| <b>XBR07</b>   | 2,2 at 0°<br>0,7 at 10° of bist                |                          |                  | 7,0                           | 18 | 1,3                        |                    |
| <b>XBR08.5</b> | 6 at 0°<br>1 at 10° of bist                    |                          |                  | 8,5                           | 22 | 2,5                        |                    |
| <b>XBR09</b>   | 6 at 0°<br>1 at 10° of bist                    |                          |                  | 9,2                           | 23 | 2,9                        |                    |
| <b>XBR10</b>   | 9 at 0°<br>2 at 10° of bist                    |                          |                  | 10,0                          | 25 | 3,8                        |                    |

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**Luneberg reflectors monostatic equatorial rectilinear polarization**  
(see Technical Data Sheet F7.2-15)

| Type           | Guaranteed minimum Radar Cross Section (sqm) * | Frequency of measurement | Kind of response  | Ø of reflector without fixing |    | Weight (kg) without fixing | Polarization       |
|----------------|--|--------------------------|-------------------|-------------------------------|----|----------------------------|--------------------|
|                |  |                          |                   | inch                          | cm |                            |                    |
| <b>XER07</b>   | 1 equatorial plan<br>0,3 ± 15°                 | <b>9,375 GHz</b>         | <b>monostatic</b> | 7,0                           | 18 | 1,3                        | <b>rectilinear</b> |
| <b>XER10</b>   | 6 equatorial plan<br>2 ± 15°                   |                          | <b>equatorial</b> | 10,0                          | 25 | 3,8                        |                    |
| <b>XER12.5</b> | 11 equatorial plan<br>8 ± 15°                  |                          |                   | 12,5                          | 32 | 7,4                        |                    |

\* RCS values are guaranteed for lenses without fixing

**Luneberg reflectors monostatic equatorial circular polarization**  
(see Technical Data Sheet F7.2-39)

| Type         | Guaranteed minimum Radar Cross Section (sqm) * | Frequency of measurement | Kind of response             | Ø of reflector without fixing |    | Weight (kg) without fixing | Polarization    |
|--------------|--|--------------------------|------------------------------|-------------------------------|----|----------------------------|-----------------|
|              |  |                          |                              | inch                          | cm |                            |                 |
| <b>XEC09</b> | 2 equatorial plan<br>1 ± 15°                   | <b>9,375 GHz</b>         | <b>monostatic equatorial</b> | 9,2                           | 23 | 2,9                        | <b>circular</b> |

\* RCS values are guaranteed for lenses without fixing

**Luneberg reflectors monostatic circular polarization**  
(see Technical Data Sheet F7.2-17)

| Type           | Guaranteed minimum Radar Cross Section (sqm) * | Frequency of measurement | Kind of response  | Ø of reflector without fixing |    | Weight (kg) without fixing | Polarization    |
|----------------|--|--------------------------|-------------------|-------------------------------|----|----------------------------|-----------------|
|                |  |                          |                   | inch                          | cm |                            |                 |
| <b>XMC09</b>   | 6 at 0°<br>4 ± 50°                             | <b>9,375 GHz</b>         | <b>monostatic</b> | 9,2                           | 23 | 2,9                        | <b>circular</b> |
| <b>KMC07</b>   | 6 at 0°<br>5 ± 50°                             | <b>15,54 GHz</b>         |                   | 7,0                           | 18 | 1,3                        |                 |
| <b>KMC08.5</b> | 10 at 0°<br>6 ± 50°                            | <b>16,5 GHz</b>          |                   | 8,5                           | 22 | 2,5                        |                 |
| <b>KMC09</b>   | 11 at 0°<br>7 ± 50°                            | <b>16,5 GHz</b>          |                   | 9,2                           | 23 | 2,9                        |                 |

\* RCS values are guaranteed for lenses without fixing

**Assemblies of monostatic rectilinear polarization Luneberg reflectors**  
(see Technical Data Sheet F7.2-35)

| Reference        | Minimum Radar Cross Section guaranteed (sqm) | Frequency of measurement | Kind of response  | Ø of each reflector<br>inch      cm | Overall dimensions (cm) | Total weight (kg) | Polarization       |
|------------------|--|--------------------------|-------------------|-------------------------------------|-------------------------|-------------------|--------------------|
| <b>B6XMR05</b>   | 0,8sqm over 75% of coverage over 360°        | <b>9,375 GHz</b>         | <b>monostatic</b> | 4,9      12                         | Ø 65<br>h 20            | 8                 | <b>rectilinear</b> |
| <b>B5XMR07</b>   | 4sqm over 75% of coverage over 360°          |                          |                   | 7,0      18                         | Ø 75<br>h 24            | 12                |                    |
| <b>B4XMR08.5</b> | 8sqm over 75% of coverage over 360°          |                          |                   | 8,5      22                         | Ø 84<br>h 27            | 15                |                    |
| <b>B3XMR18</b>   | 80sqm over 75% of coverage over 360°         |                          |                   | 17,5      44                        | Ø 106<br>h 73           | 80                |                    |

